

# Research and Trends in Forestry

## *Overview of Canada's approach*

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# Presentation Outline

- The Canadian Forest Service
- Our Partners
- Our Strategic Priorities
- Our responses to emerging trends



# The Canadian Forest Service (CFS)...

The CFS develops and delivers programs, policy and science to promote forest resource advantage around two key themes:



## Competitiveness

- Influencing new products, processes and markets for the economic health of the sector

## Sustainability

- Applying scientific research to find solutions to enhance forests' contributions to the economy, environment and society

**...is the Government of Canada lead on forest issues**

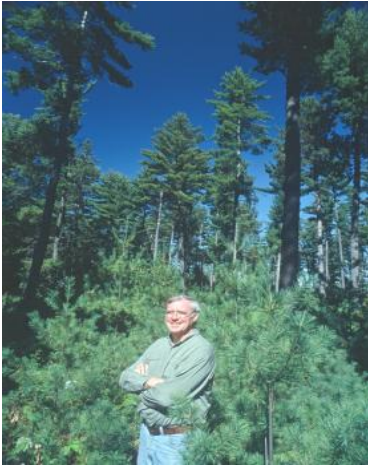


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# CFS works in collaboration...



A wide range of traditional and non-traditional partners:

- Researchers and academia
- Provincial/Territorial Governments
- Forest products and value-added industries
- Other stakeholders



**... with many important research partners**



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# CFS Strategic Priorities...

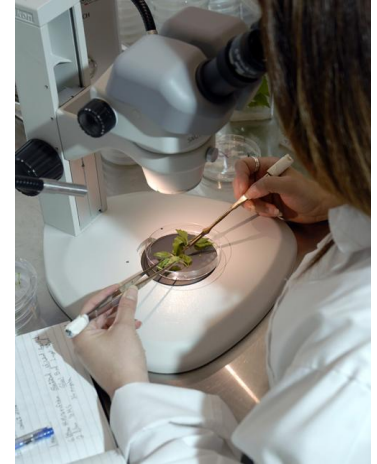
- **Support Forest Sector Competitiveness**
  - Driving sector transformation through innovation and market expansion
- **Optimize Forest Value**
  - Optimizing the socio-economic benefits from forests to industry and communities
- **Advance Environmental Leadership**
  - Creating competitive advantage through strong environmental performance

**...helping to align our efforts to promote  
sustainability and competitiveness**



# Priority 1) Support Forest Sector Competitiveness...

- Forest Innovation by Research and Education (FIBRE)
  - E.g. Specialized network to further develop bioactive paper-based platform technologies
- FPInnovations transformative research
  - E.g. Transition from lab-scale lignin, extraction and product development activities to commercial demonstration



**...demonstrating our work with key research partners**



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# Priority 2) Optimize Forest Value...

- Enhanced Forest Inventory
  - Use of *Light Detection and Ranging* (LiDAR) to provide accurate data for detailed forest inventory
- Genomics Pest Research
  - Lead research on Spruce Budworm: novel control mechanisms and identification of molecular markers to monitor the insect's dispersal



**...working with our science partners across diverse fields**



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# Priority 3) Advance Environmental Leadership...

- Carbon Budget Model
  - Operational-scale forest carbon dynamics model to assess implications of management activities on forest carbon
- Boreal Synthesis
  - Comprehensive review of the state of science on the Canadian boreal zone and its ecosystems



**...participating in knowledge creation and exchange**





# Our research approach is also evolving...

## CHALLENGE

Cumulative impacts on  
forests due to  
biophysical and  
anthropogenic change

Scarce resources

## RESPONSE



Systems approach



Increased collaboration

**...to adapt to a changing world**



# Comments and Questions?



*Our Vision for the Future*  
*An innovative, globally competitive  
forest sector - rooted in sustainable  
forests - creating prosperity for  
Canadians*

